

CLAIMS

1. A heating apparatus, comprising:
5 a coil, and
a heating element, containing said coil, which
generates heat by the action of magnetic flux from
said coil to heat an image on a material to be heated,
wherein said heating element has a Curie
10 temperature which is higher than a fixation
temperature and is lower than a heat-resistant
temperature of said heating apparatus and has a
thickness, in an area outside an area corresponding to
a predetermined size of the material to be heated,
15 which is larger than a thickness in the area
corresponding to the predetermined size of the
material to be heated.

2. An apparatus according to Claim 1, wherein
20 said heating element comprises a surface layer and a
heat generation layer which has a thickness larger
than a thickness of the surface layer when the
temperature of said heating element is a fixation
temperature.

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3. An apparatus according to Claim 2, wherein
said heating element comprises a surface layer and a

heat generation layer which has a thickness, in the area outside the area corresponding to the predetermined size of the material to be heated, larger than a thickness of the surface layer when the temperature of said heating element is the Curie temperature.

4. An apparatus according to Claim 1, wherein said heating element is a hollow roller which is changed in an inner diameter so as to change the thickness of said heating element.

5. An apparatus according to Claim 1, wherein said apparatus further comprises power supply means for supplying power to said coil so that a temperature of said heating element in a conveyance area of the material to be heated is a predetermined fixation temperature.